

WHAT IS CLAIMED IS:

1 1. A purified or isolated nucleic acid comprising at least 10 consecutive
2 bases of the sequence of one of SEQ ID NOs: 40-84 and 130-154 or one of the
3 sequences complementary thereto.

2. The purified or isolated nucleic acid of claim 1, comprising the sequence
of one of SEQ ID NOs: 40-84 and 130-154 or a sequence complementary thereto.

1 3. The purified or isolated nucleic acid of claim 1, comprising the full
2 coding sequences of one of SEQ ID NOs: 40-59, 61-73, 75, 77-82, and 130-154 wherein
3 the full coding sequence comprises the sequence encoding signal peptide and the
4 sequence encoding mature protein.

1 4. The purified or isolated nucleic acid of claim 1, comprising the
2 nucleotides of one of SEQ ID NOs: 40-59, 61-75, 77-82, and 130-154 which encode a
3 mature protein.

5. The purified or isolated nucleic acid of claim 1, comprising the
nucleotides of one of SEQ ID NOS: 40-59, 61-73, 75-82, 84, and 130-154 which encode
the signal peptide.

1 6. A purified or isolated nucleic acid encoding at least 10 amino acids of a
2 polypeptide having the sequence of one of the sequences of SEQ ID NOS: 85-129 and
3 155-179.

1 7. The purified or isolated nucleic acid of claim 6, encoding a polypeptide
2 having the sequence of a mature protein included in one of the sequences of SEQ ID
3 NOs: 85-104, 106-120, 122-127, and 155-179.

1 8. The purified or isolated nucleic acid of claim 6, encoding a polypeptide
2 having the sequence of a signal peptide included in one of the sequences of SEQ ID
3 NOs: 85-104, 106-118, 120-127, 129, and 155-179.

1 9. A purified or isolated polypeptide comprising at least 10 consecutive
2 amino acids of one of the sequences of SEQ ID NOs: 85-129 and 155-179.

1 10. The purified or isolated protein of claim 9, comprising the full length
2 sequence of one of SEQ ID NOs: 85-129 and 155-179.

1 11. The isolated or purified polypeptide of claim 9, comprising a signal
2 peptide of one of the polypeptides of SEQ ID NOs: 85-104, 106-118, 120-127, 129, and
3 155-179.

1 12. The isolated or purified polypeptide of claim 9, comprising a mature
2 protein of one of the polypeptides of SEQ ID NOs: 85-104, 106-120, 122-127, and 155-
3 179.

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1 13. A method of making a protein comprising one of the sequences of SEQ
2 ID NO: 85-129 and 155-179, comprising the steps of:

3 a) growing an appropriate host cell under conditions whereby said protein
4 is expressed, and
5 b) isolating said protein.

1 14. A host cell recombinant for the nucleic acid of claim 1.

1 15. In an array of polynucleotides of at least 15 nucleotides in length, the
2 improvement comprising inclusion in said array of at least one of the sequences of SEQ
3 ID NOs: 40-84 and 130-154, or one of the sequences complementary to the sequences
4 of SEQ ID NOs: 40-84 and 130-154, or a fragment thereof of at least 15 consecutive
5 nucleotides.

1 16. A purified or isolated antibody capable of binding to a polypeptide
2 comprising at least 10 consecutive amino acids of the sequence of one of SEQ ID NOs:
3 85-129 and 155-179.

1 17. A computer readable medium having stored thereon a sequence selected
2 from the group consisting of a cDNA code of SEQID NOs. 40-84 and 130-154 or a
3 polypeptide code of SEQ ID NOs. 85-129 and 155-179.

1 18. A method of binding the antibody of claim 16 to a polypeptide of claim 6.

1 19. A method for comparing a first sequence of claim 17 to a reference
2 sequence comprising the steps of:

3 reading said first sequence and said reference sequence through use of a computer
4 program which compares sequences; and

5 determining differences between said first sequence and said reference sequence
6 with said computer program.

1 20. A method for identifying a feature in a sequence of claim 17 comprising
2 the steps of:

3 reading said sequence through the use of a computer program which identifies
4 features in sequences; and

5 identifying features in said sequence with said computer program.

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